

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062218\
 Data File : VN049495.D
 Acq On : 22 Jun 2018 16:49
 Operator : MD\SY
 Sample : J3649-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 22:15:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1561666	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2437354	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2036961	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	544574	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	1078179	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
35) Dibromofluoromethane	7.59	113	956746	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
50) Toluene-d8	10.09	98	3405945	45.36	ug/l	0.00
Spiked Amount			Recovery	=	90.72%	
62) 4-Bromofluorobenzene	12.40	95	834530	33.61	ug/l	0.00
Spiked Amount			Recovery	=	67.22%	

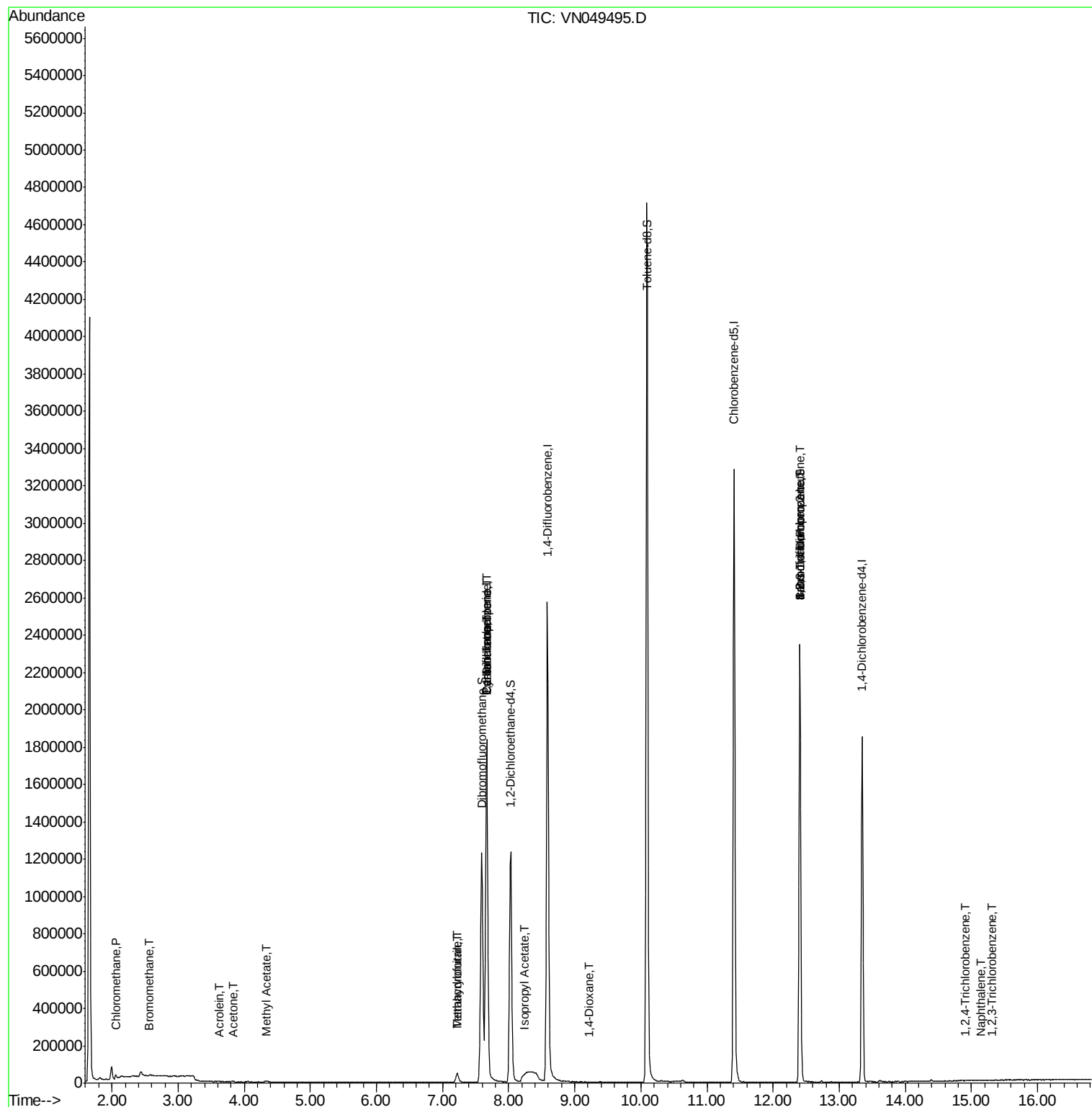
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	18421	0.79	ug/l	95
5) Bromomethane	2.57	94	3867	0.30	ug/l	83
13) Acrolein	3.61	56	791	0.62	ug/l	96
16) Acetone	3.83	43	2747	0.55	ug/l #	83
18) Methyl Acetate	4.34	43	14548	0.95	ug/l	96
29) Tetrahydrofuran	7.22	42	39381	9.06	ug/l	96
31) Cyclohexane	7.67	56	28773	0.77	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	108570	3.89	ug/l #	51
38) Carbon Tetrachloride	7.67	117	140054	4.84	ug/l #	17
41) Methacrylonitrile	7.22	41	23126	2.82	ug/l #	100
43) Isopropyl Acetate	8.23	43	36707	1.27	ug/l #	64
49) 1,4-Dioxane	9.21	88	143	0.76	ug/l #	1
71) Bromoform	12.40	173	4839	0.38	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.42	83	30	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	407874	43.90	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	407874	138.74	ug/l #	8
90) Hexachloroethane	13.64	117	33	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.91	180	130	4.76	ug/l #	13
95) Naphthalene	15.13	128	176	2.09	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	124	3.47	ug/l #	1

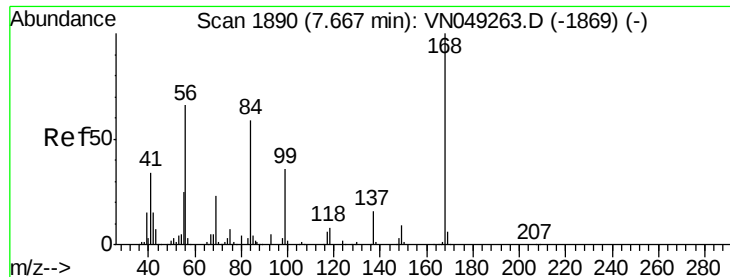
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

Instrument :

MSVOA_N

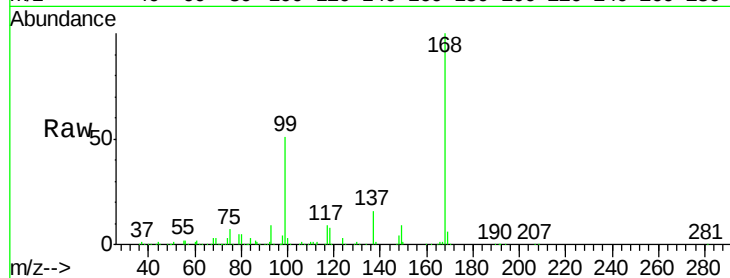
ClientSampleId :

Tot Ion:168 Resp: 1561666

Ion Ratio Lower Upper

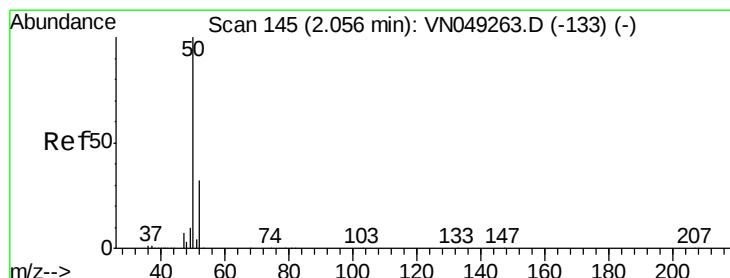
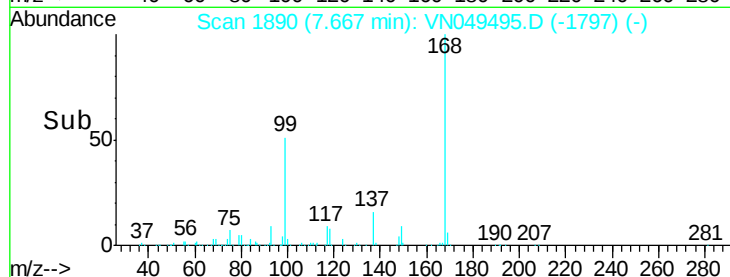
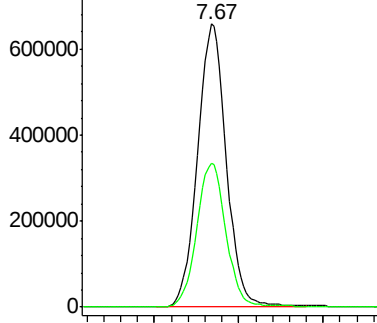
168 100

99 51.0 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.79 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049495.D

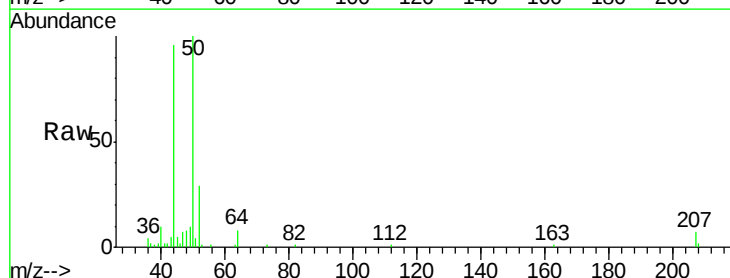
Acq: 22 Jun 2018 16:49

Tgt Ion: 50 Resp: 18421

Ion Ratio Lower Upper

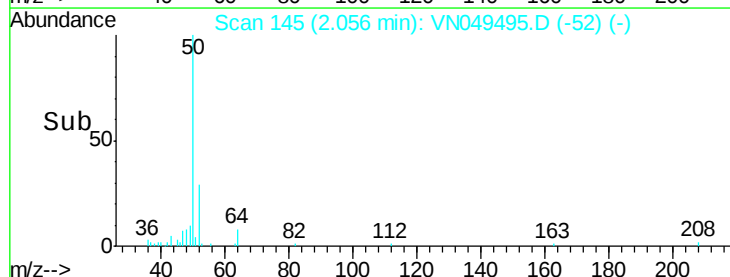
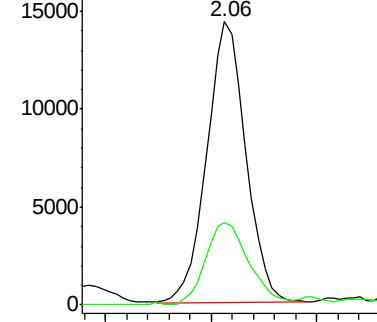
50 100

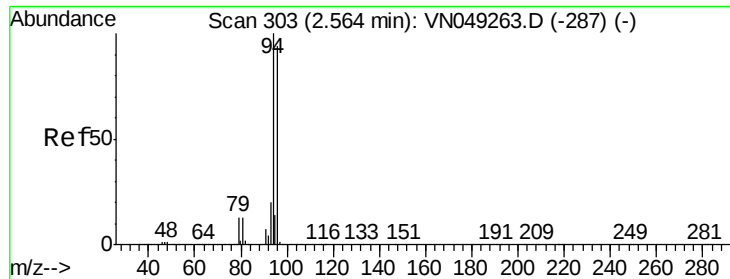
52 28.5 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#5

Bromomethane

Concen: 0.30 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

Instrument :

MSVOA_N

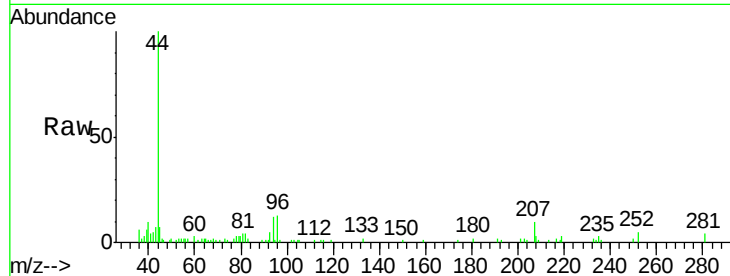
ClientSampled :

Tot Ion: 94 Resp: 3867

Ion Ratio Lower Upper

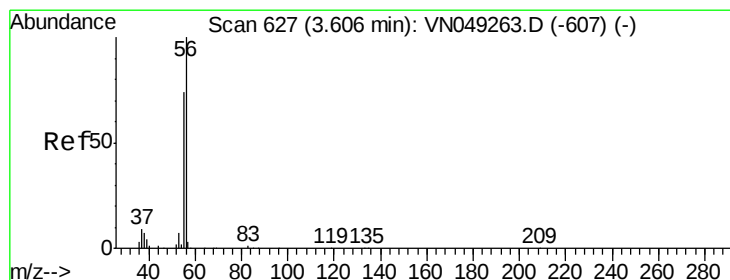
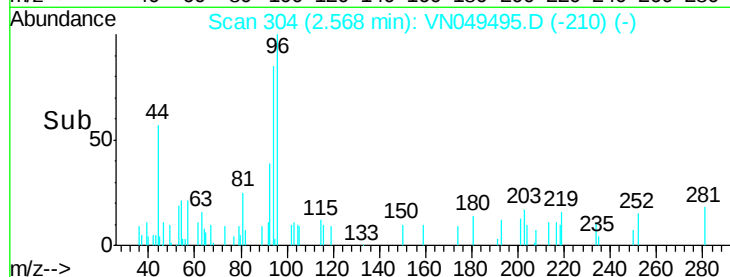
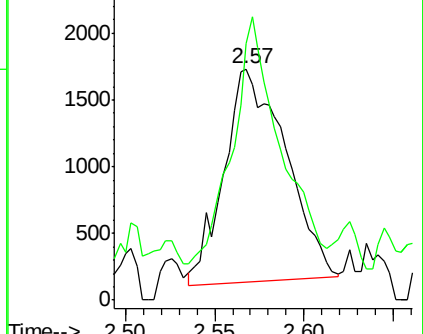
94 100

96 107.3 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#13

Acrolein

Concen: 0.62 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN049495.D

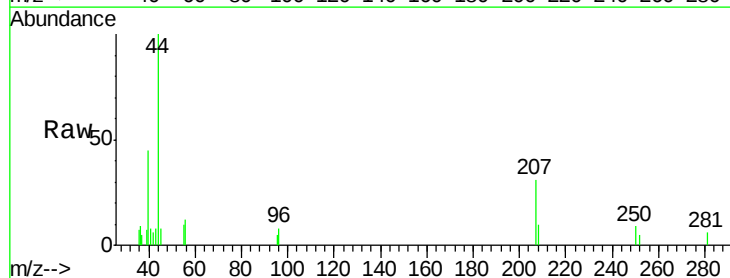
Acq: 22 Jun 2018 16:49

Tgt Ion: 56 Resp: 791

Ion Ratio Lower Upper

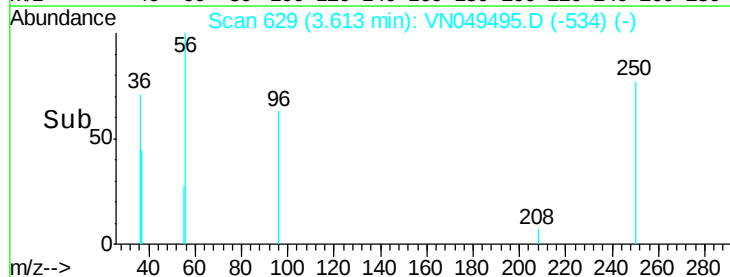
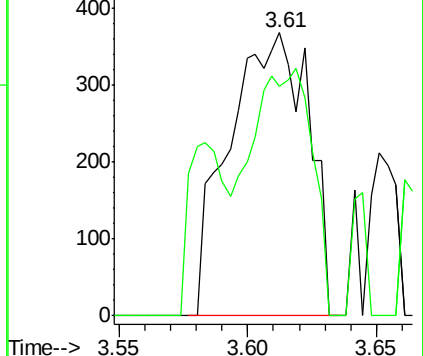
56 100

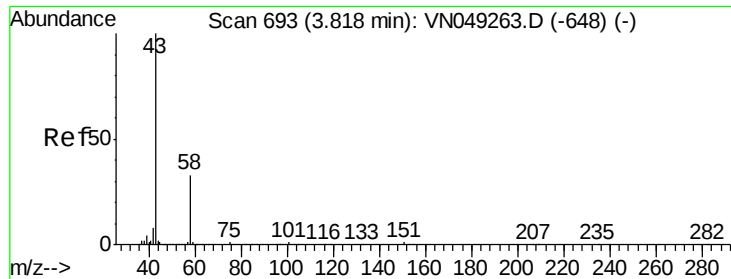
55 68.3 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

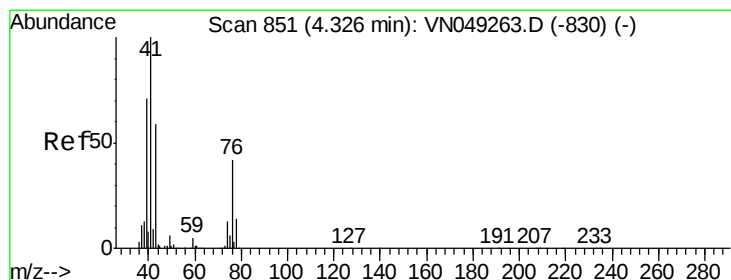
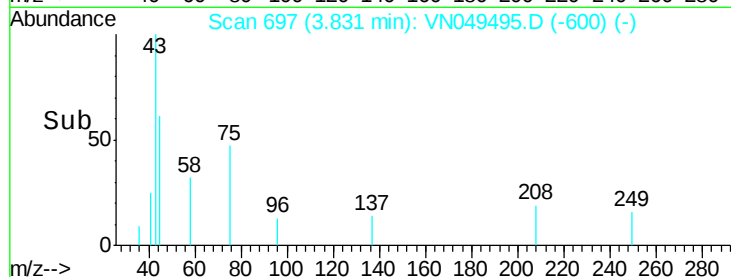
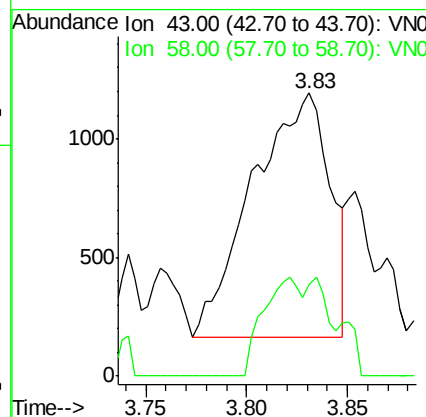
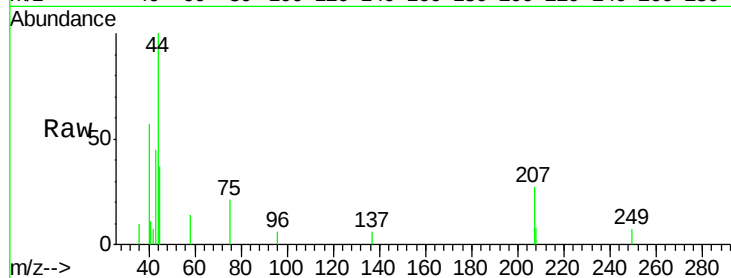




#16
Acetone
Concen: 0.55 ug/l
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN049495.D
Acq: 22 Jun 2018 16:49

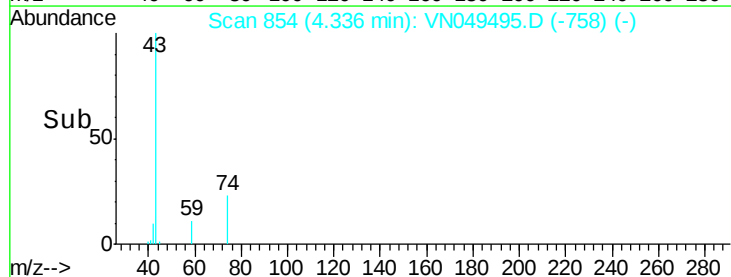
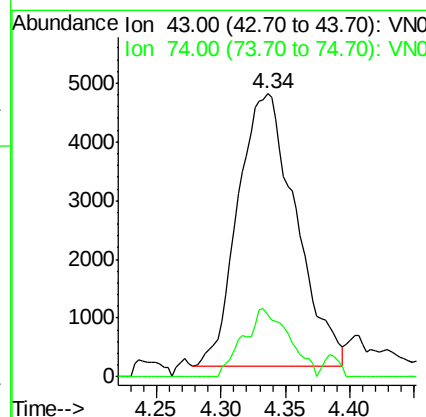
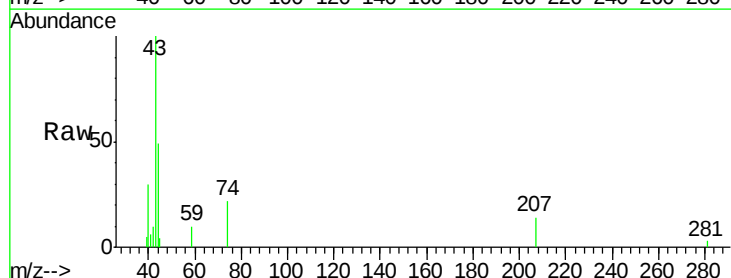
Instrument :
MSVOA_N
ClientSampleId :

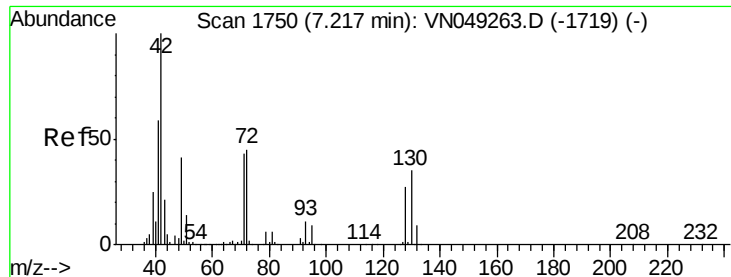
Tot Ion: 43 Resp: 2747
Ion Ratio Lower Upper
43 100
58 37.2 22.4 33.6#



#18
Methyl Acetate
Concen: 0.95 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN049495.D
Acq: 22 Jun 2018 16:49

Tgt Ion: 43 Resp: 14548
Ion Ratio Lower Upper
43 100
74 19.6 17.4 26.0

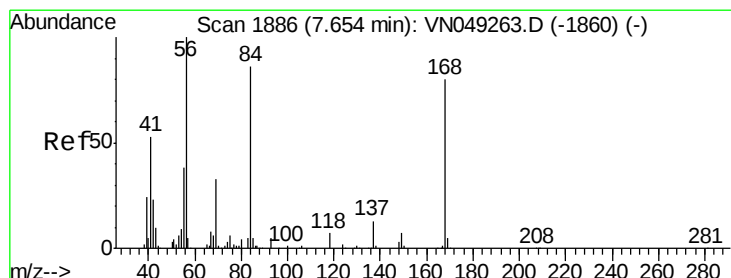
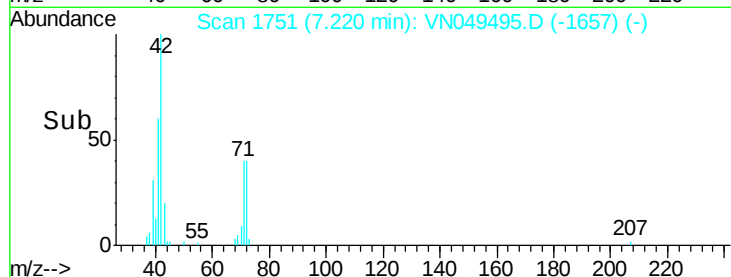
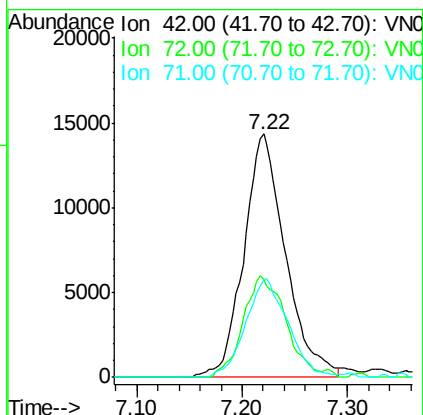
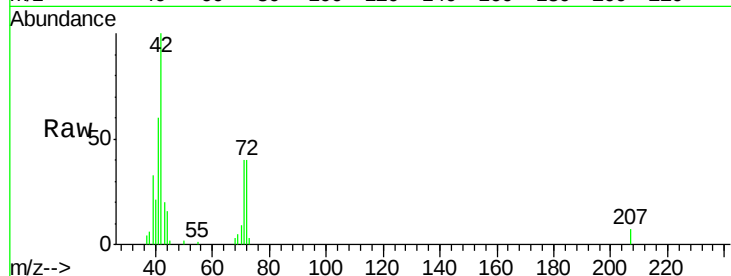




#29
Tetrahydrofuran
Concen: 9.06 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049495.D
Acq: 22 Jun 2018 16:49

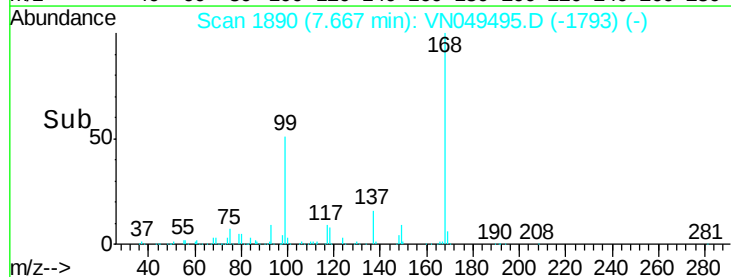
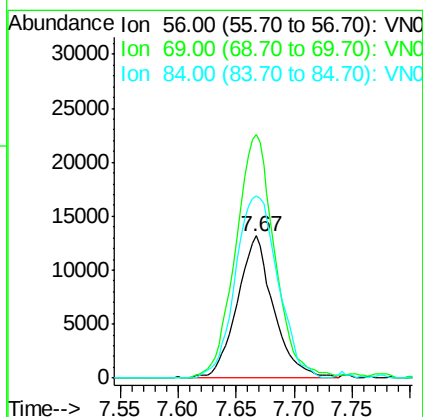
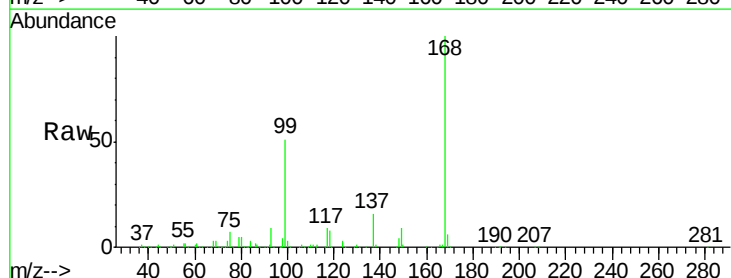
Instrument :
MSVOA_N
ClientSampleId :

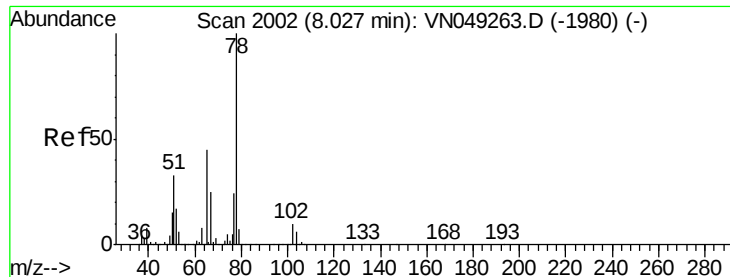
Tot Ion: 42 Resp: 39381
Ion Ratio Lower Upper
42 100
72 42.4 32.2 48.4
71 41.0 30.5 45.7



#31
Cyclohexane
Concen: 0.77 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049495.D
Acq: 22 Jun 2018 16:49

Tgt Ion: 56 Resp: 28773
Ion Ratio Lower Upper
56 100
69 171.5 25.0 37.4#
84 128.1 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 52.05 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

Instrument :

MSVOA_N

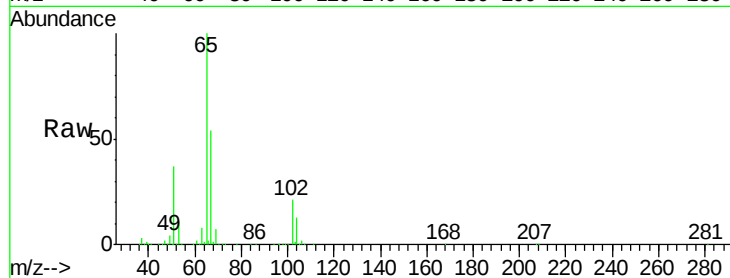
ClientSampleId :

Tot Ion: 65 Resp: 1078179

Ion Ratio Lower Upper

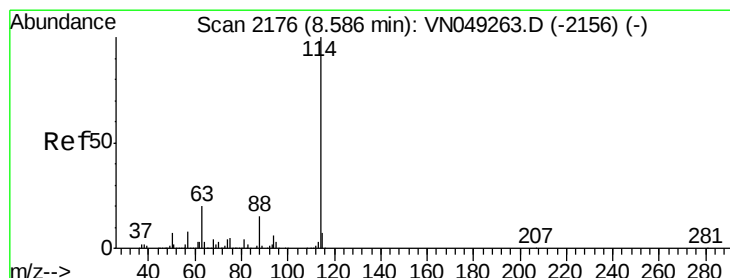
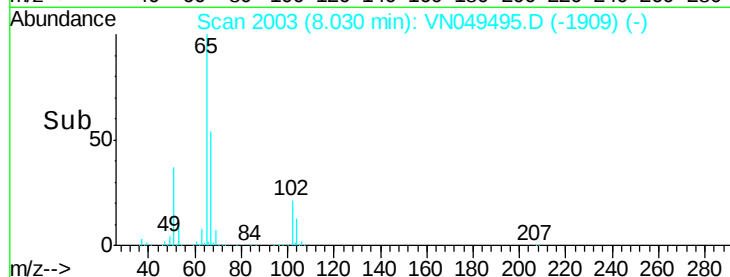
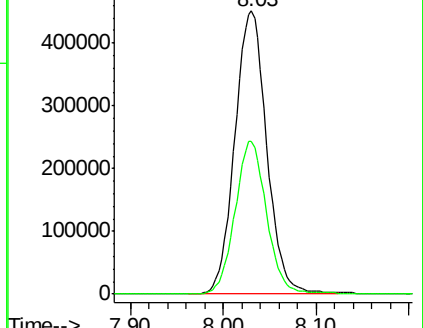
65 100

67 53.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049495.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049495.D (-1909) (-)



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

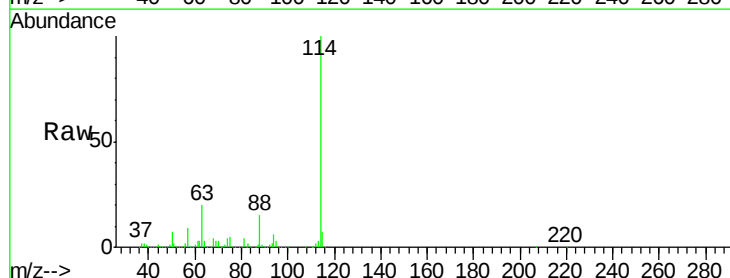
Tgt Ion: 114 Resp: 2437354

Ion Ratio Lower Upper

114 100

63 20.5 0.0 44.4

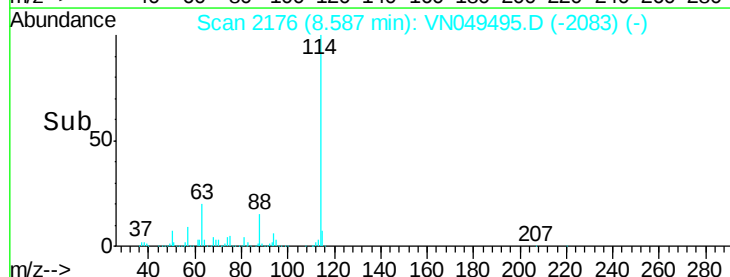
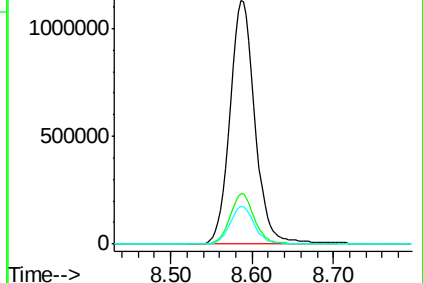
88 15.4 0.0 31.4

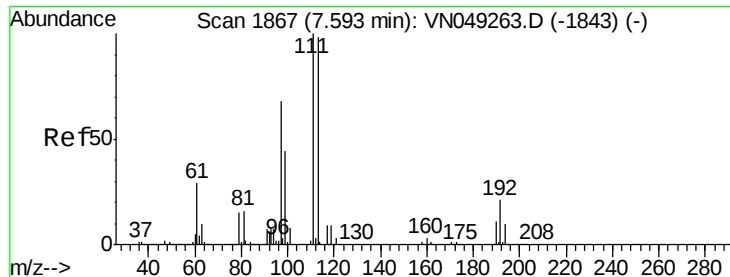


Abundance Ion 113.90 (113.60 to 114.60): VN049495.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049495.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049495.D (-2083) (-)

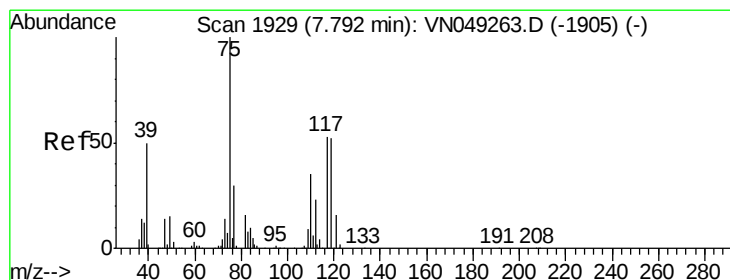
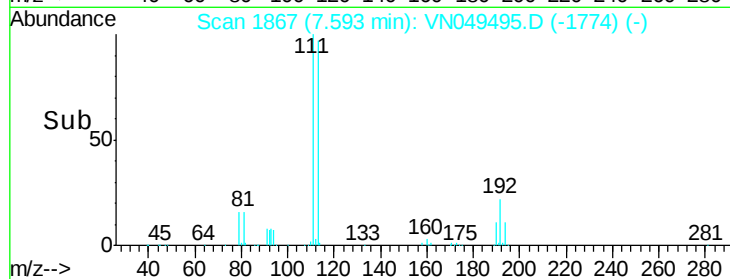
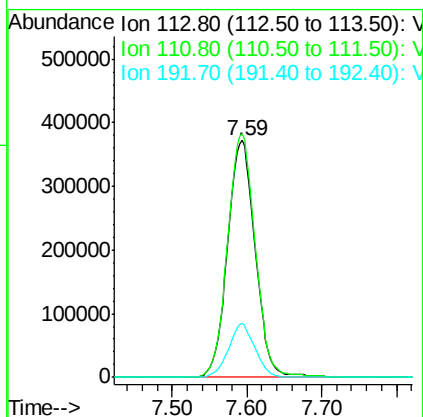
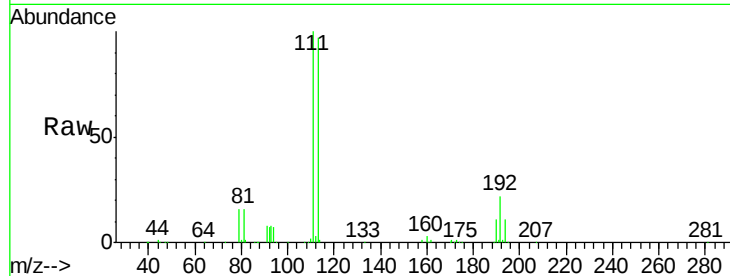




#35
 Dibromofluoromethane
 Concen: 48.52 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049495.D
 Acq: 22 Jun 2018 16:49

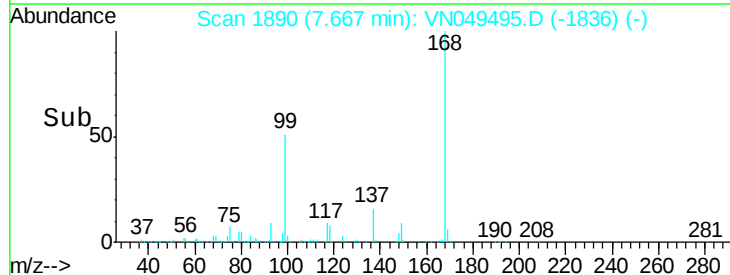
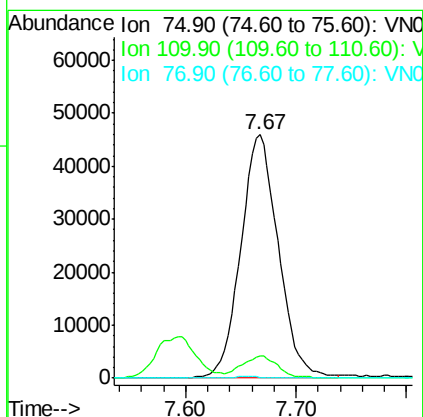
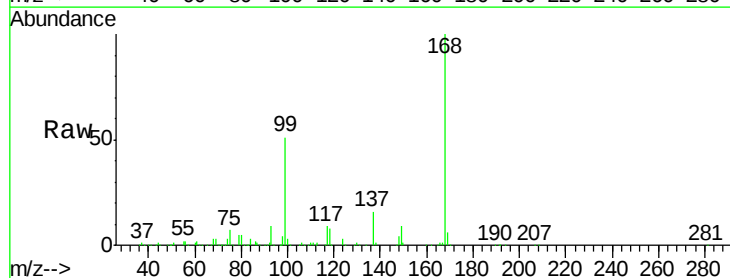
Instrument :
 MSVOA_N
 ClientSampled :

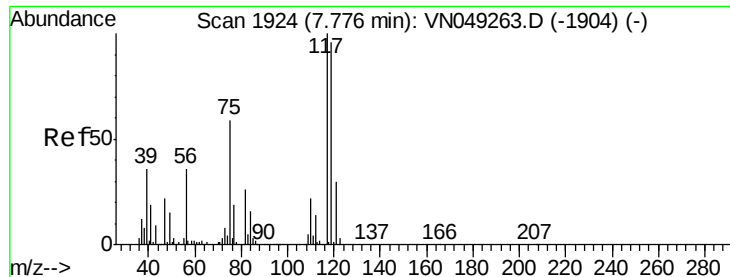
Tot Ion:113 Resp: 956746
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.4 123.6
 192 21.6 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 3.89 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049495.D
 Acq: 22 Jun 2018 16:49

Tgt Ion: 75 Resp: 108570
 Ion Ratio Lower Upper
 75 100
 110 8.8 17.0 50.9#
 77 0.3 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 4.84 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

Instrument :

MSVOA_N

ClientSampleId :

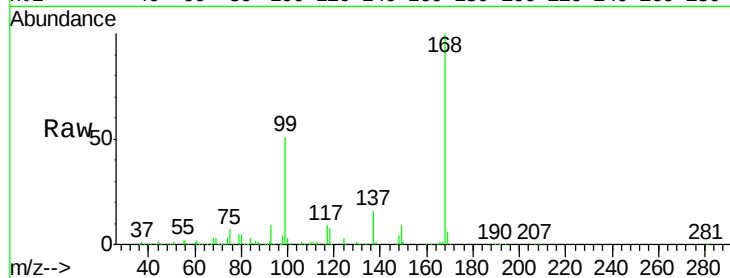
Tot Ion:117 Resp: 140054

Ion Ratio Lower Upper

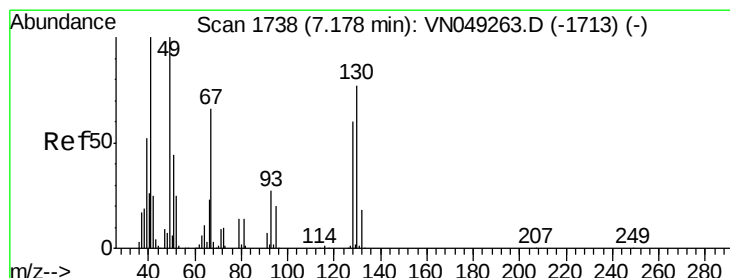
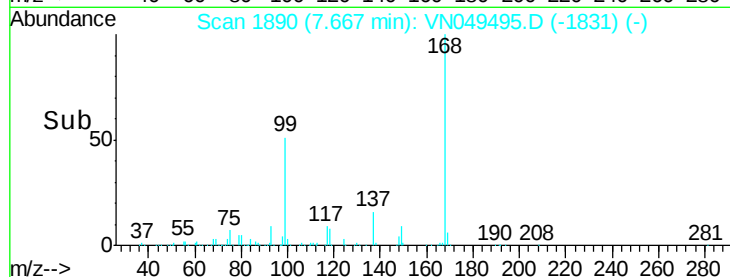
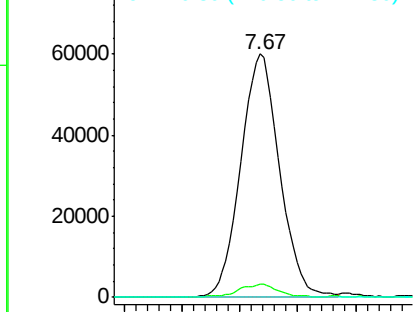
117 100

119 5.3 75.6 113.4#

121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 2.82 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.04 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

Tgt Ion: 41 Resp: 23126

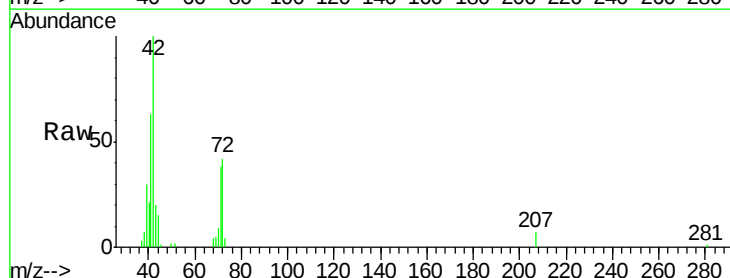
Ion Ratio Lower Upper

41 100

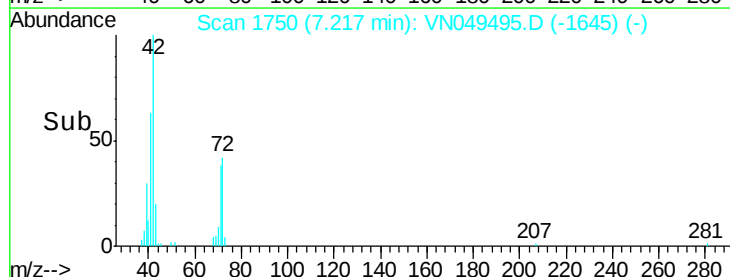
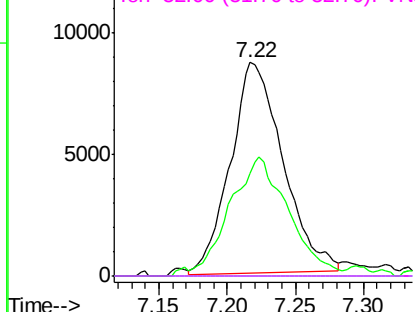
39 60.6 0.0 0.0#

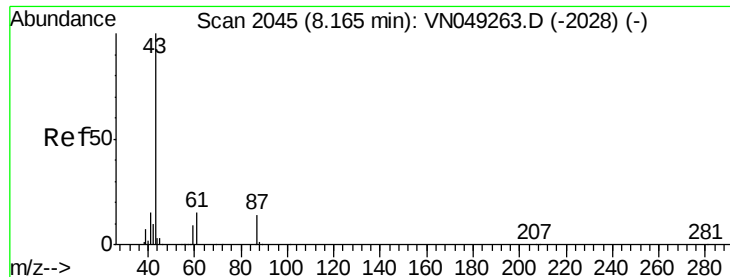
67 0.0 0.0 0.0

52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 1.27 ug/l

RT: 8.23 min Scan# 2066

Delta R.T. 0.07 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

Instrument :

MSVOA_N

ClientSampleId :

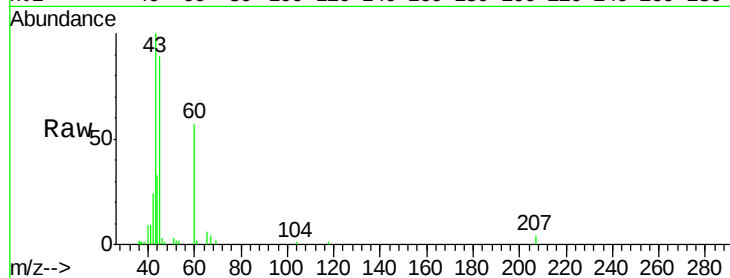
Tot Ion: 43 Resp: 36707

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

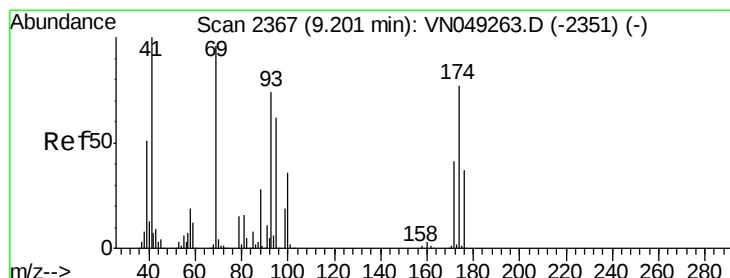
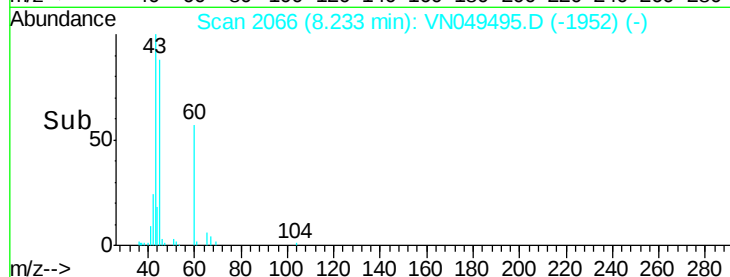
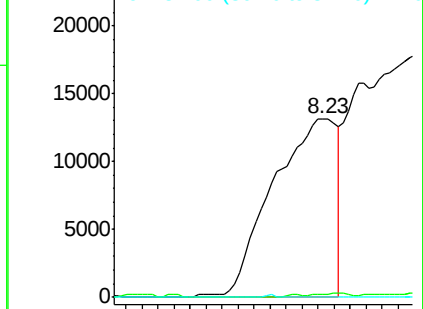
87 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049495.D (-2066) (-)

Ion 61.00 (60.70 to 61.70): VN049495.D (-2066) (-)

Ion 87.00 (86.70 to 87.70): VN049495.D (-2066) (-)



#49

1,4-Dioxane

Concen: 0.76 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.01 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

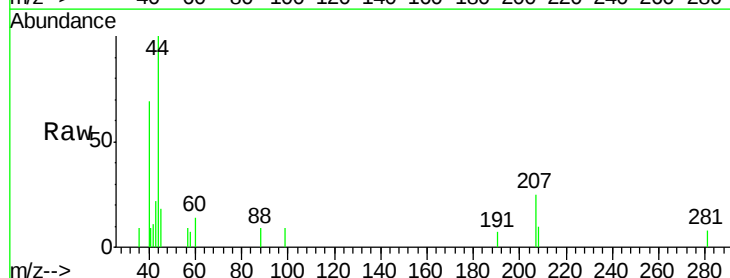
Tgt Ion: 88 Resp: 143

Ion Ratio Lower Upper

88 100

43 184.6 30.9 46.3#

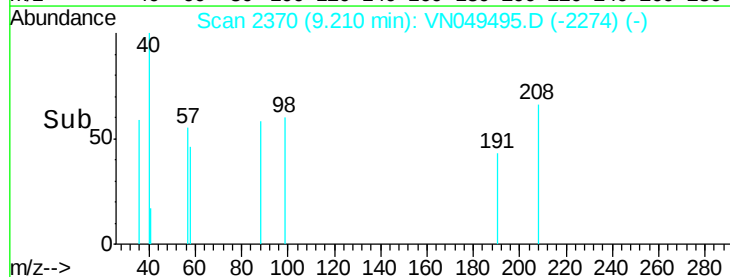
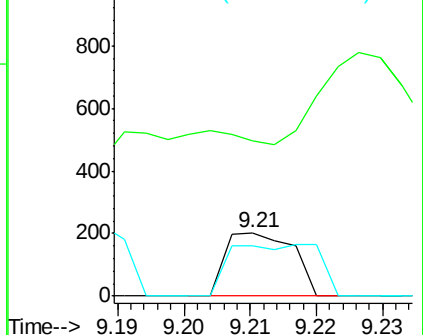
58 108.4 58.9 88.3#

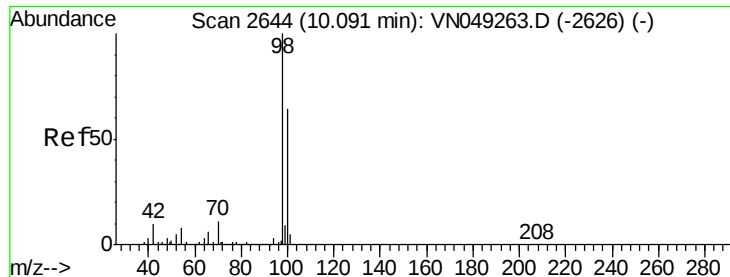


Abundance Ion 88.00 (87.70 to 88.70): VN049495.D (-2370) (-)

Ion 43.00 (42.70 to 43.70): VN049495.D (-2370) (-)

Ion 58.00 (57.70 to 58.70): VN049495.D (-2370) (-)





#50

Toluene-d8

Concen: 45.36 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

Instrument :

MSVOA_N

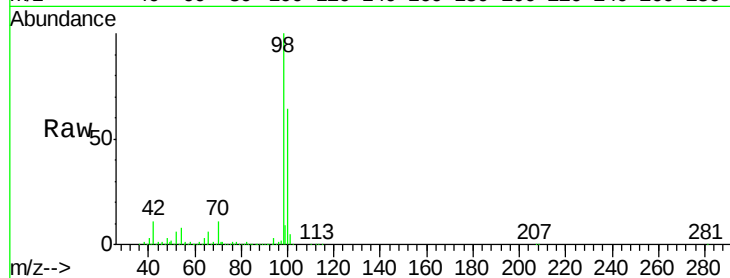
ClientSampleId :

Tot Ion: 98 Resp: 3405945

Ion Ratio Lower Upper

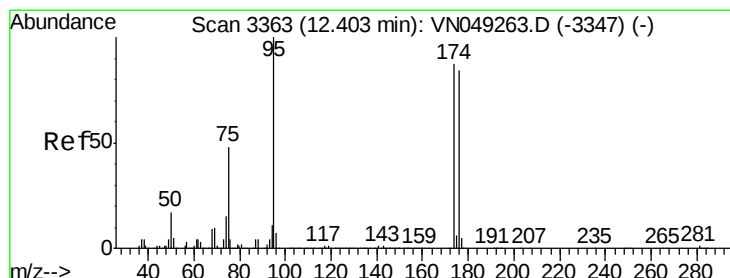
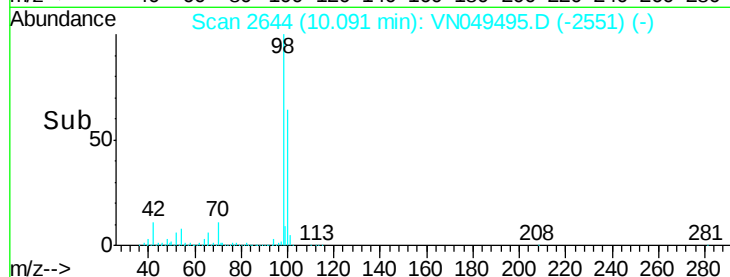
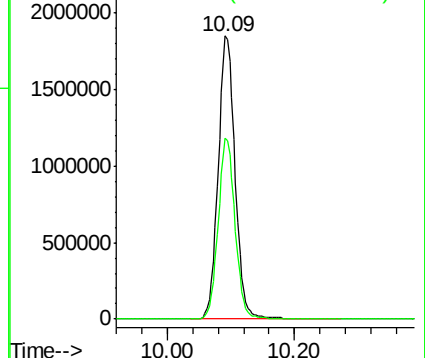
98 100

100 63.7 49.8 74.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 33.61 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

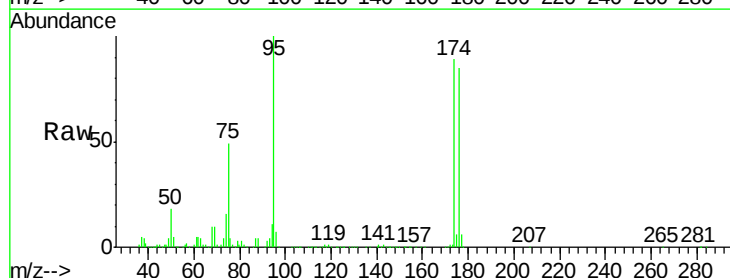
Tgt Ion: 95 Resp: 834530

Ion Ratio Lower Upper

95 100

174 90.5 0.0 165.6

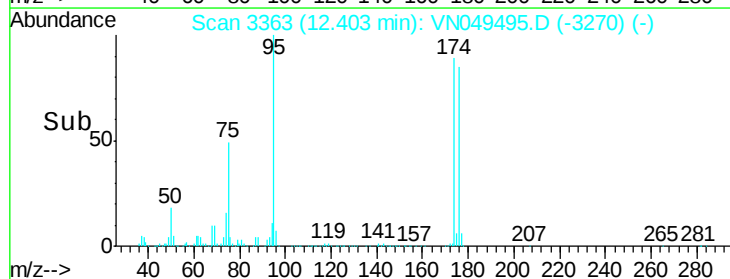
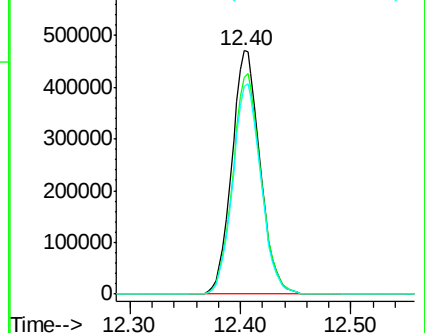
176 86.5 0.0 157.4

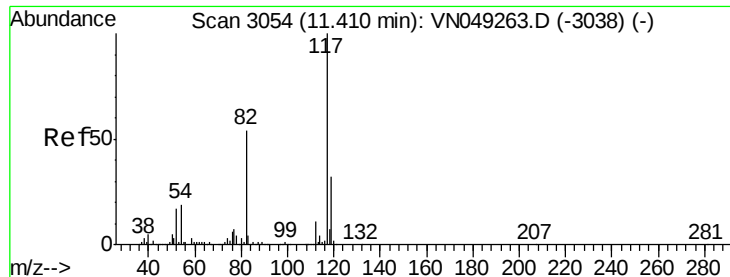


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

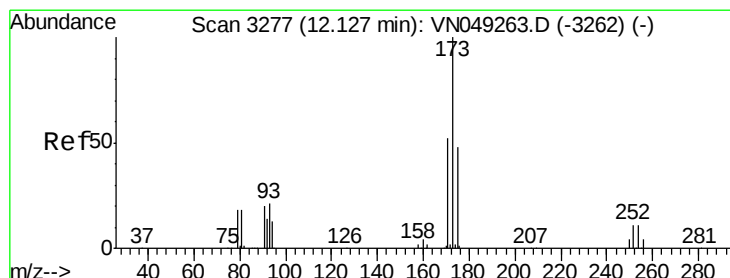
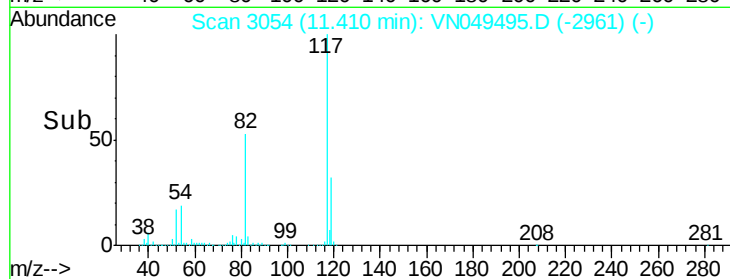
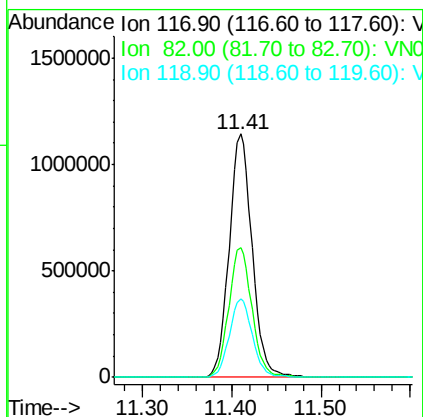
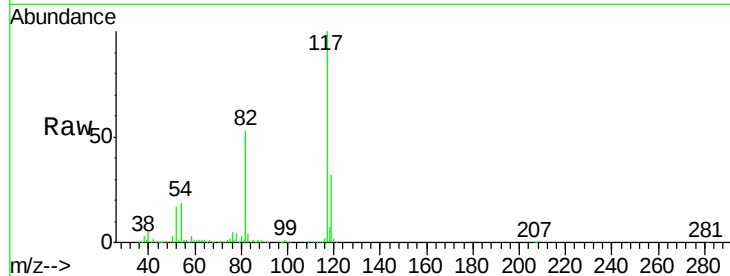




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049495.D
Acq: 22 Jun 2018 16:49

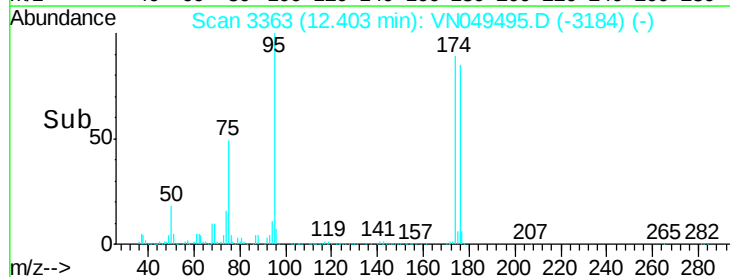
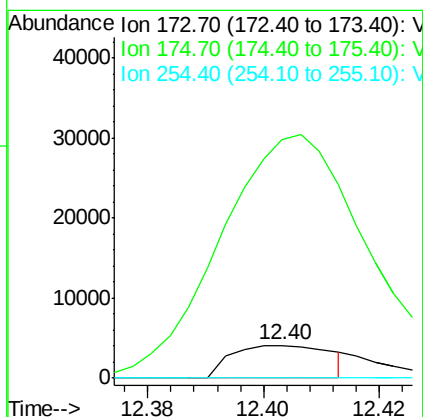
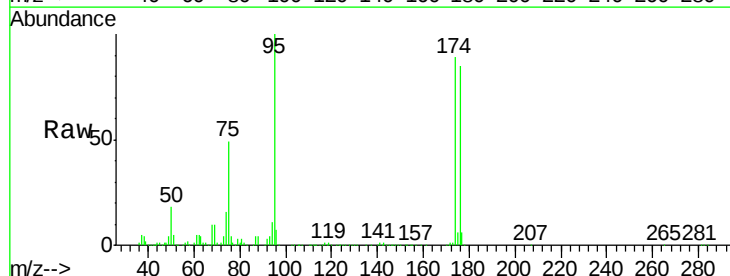
Instrument :
MSVOA_N
ClientSampled :

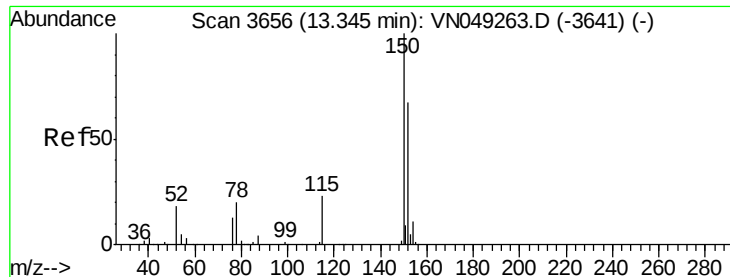
Tot Ion:117 Resp: 2036961
Ion Ratio Lower Upper
117 100
82 53.5 45.9 68.9
119 32.2 25.5 38.3



#71
Bromoform
Concen: 0.38 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049495.D
Acq: 22 Jun 2018 16:49

Tgt Ion:173 Resp: 4839
Ion Ratio Lower Upper
173 100
175 864.4 24.5 73.5#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

Instrument :

MSVOA_N

ClientSampleId :

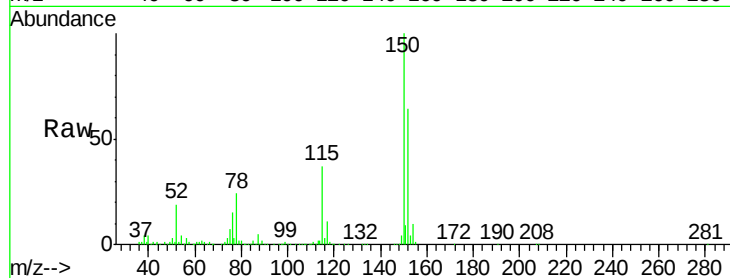
Tot Ion:152 Resp: 544574

Ion Ratio Lower Upper

152 100

115 56.6 28.7 86.1

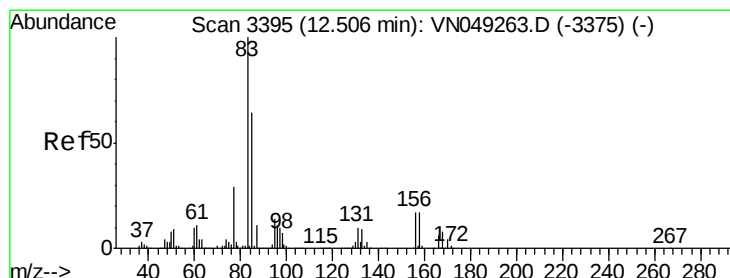
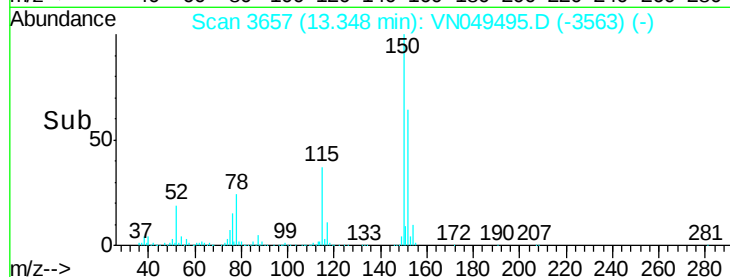
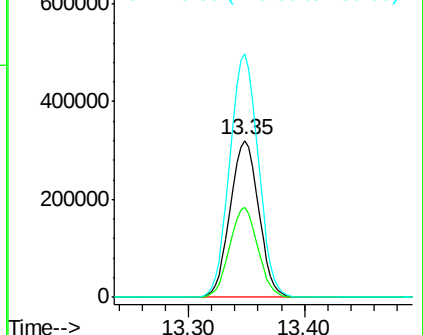
150 155.6 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.42 min Scan# 3369

Delta R.T. -0.08 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

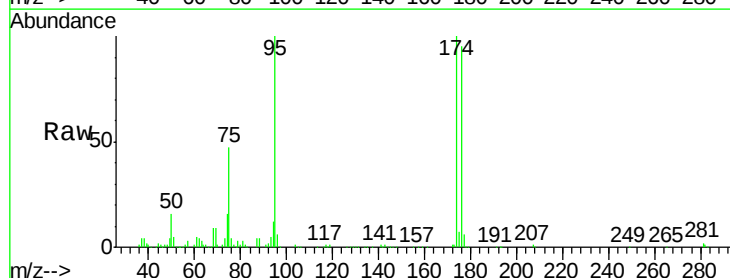
Tgt Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

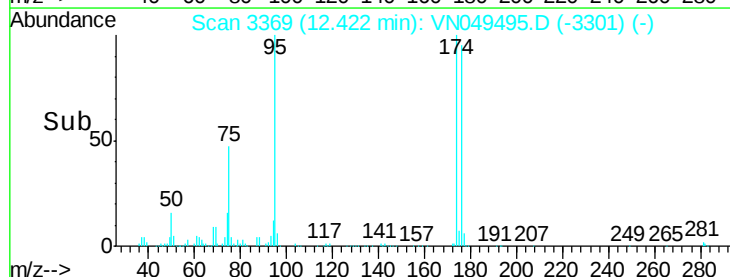
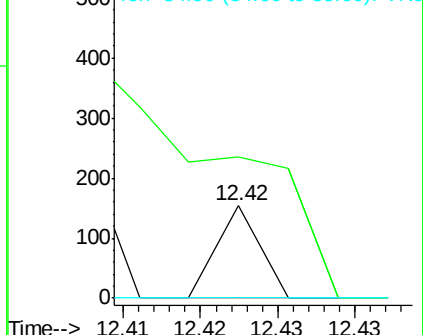
85 0.0 32.0 96.0#

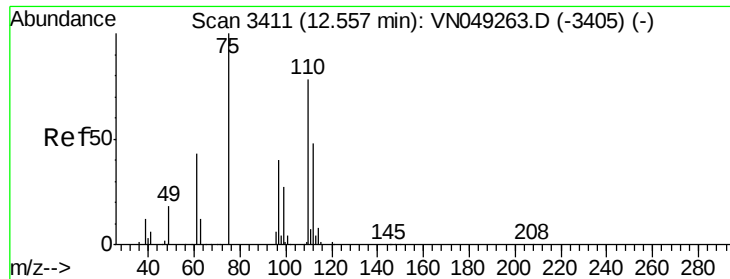


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 43.90 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

Instrument :

MSVOA_N

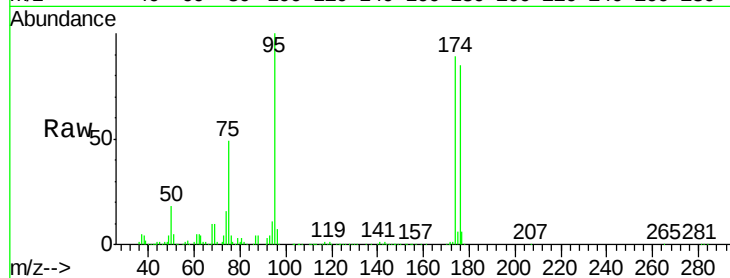
ClientSampled :

Tot Ion: 75 Resp: 407874

Ion Ratio Lower Upper

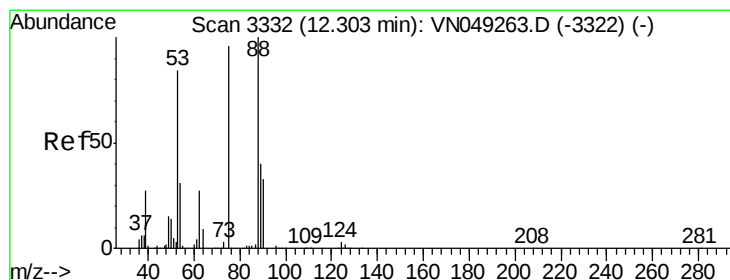
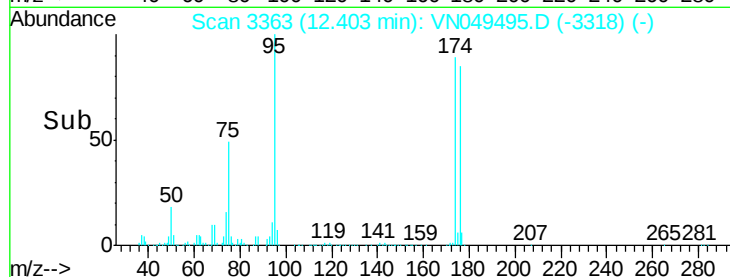
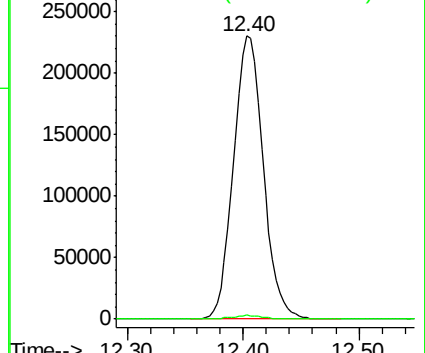
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 138.74 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

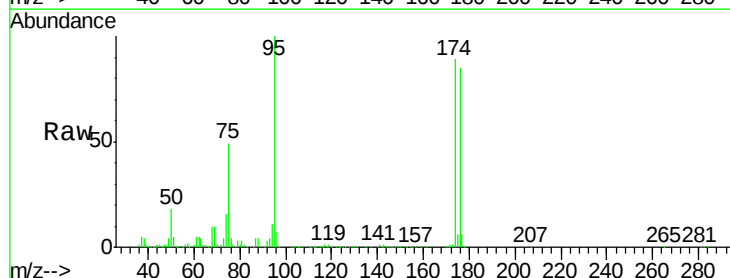
Tgt Ion: 75 Resp: 407874

Ion Ratio Lower Upper

75 100

53 0.1 82.7 124.1#

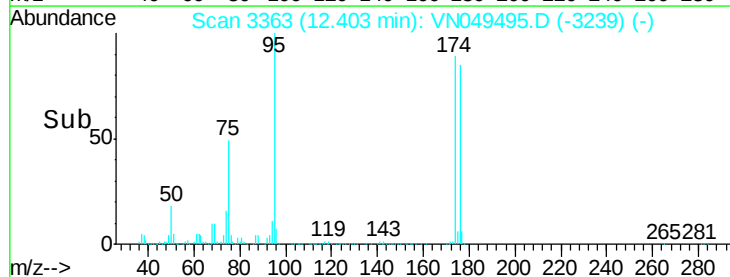
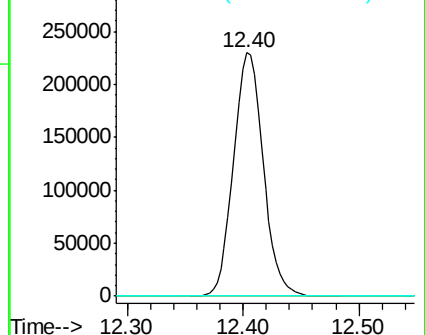
89 0.0 36.5 54.7#

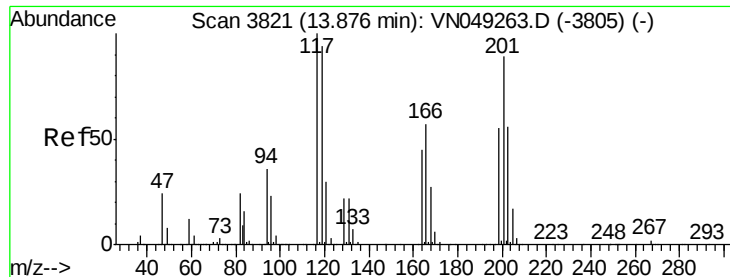


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#90

Hexachloroethane

Concen: Below Cal

RT: 13.64 min Scan# 3747

Delta R.T. -0.24 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

Instrument :

MSVOA_N

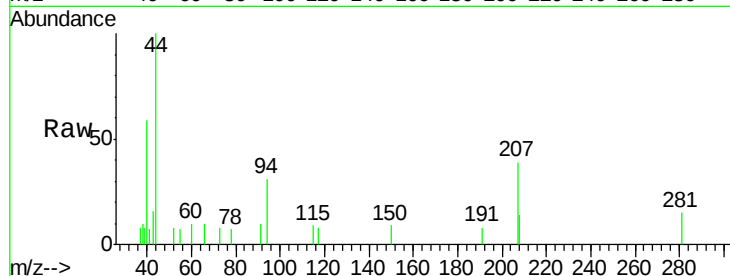
ClientSampleId :

Tot Ion:117 Resp: 33

Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.64

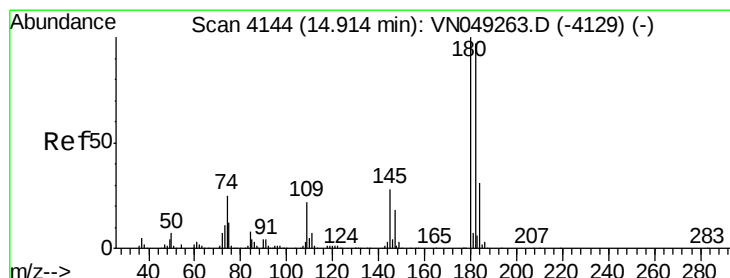
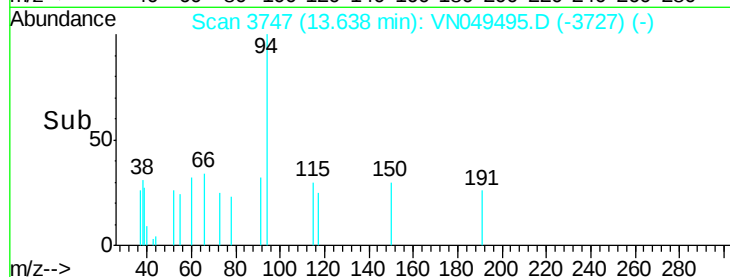
150

100

50

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 4.76 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.01 min

Lab File: VN049495.D

Acq: 22 Jun 2018 16:49

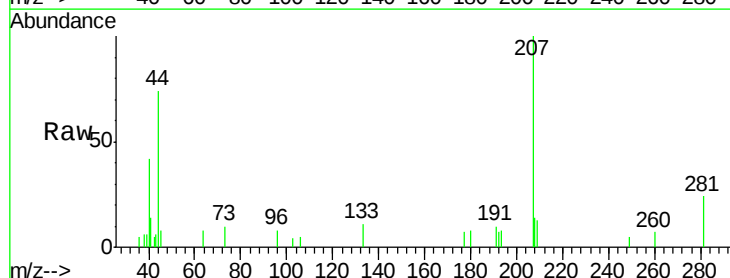
Tgt Ion:180 Resp: 130

Ion Ratio Lower Upper

180 100

182 0.0 46.9 140.8#

145 0.0 14.7 44.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

14.91

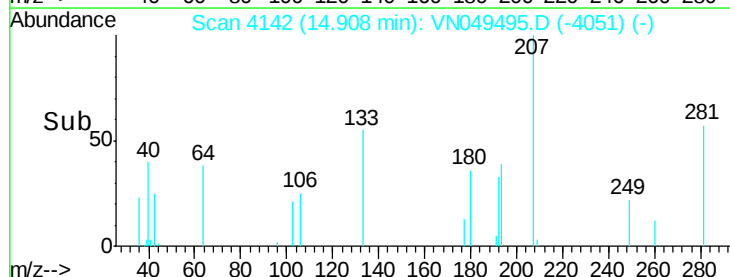
300

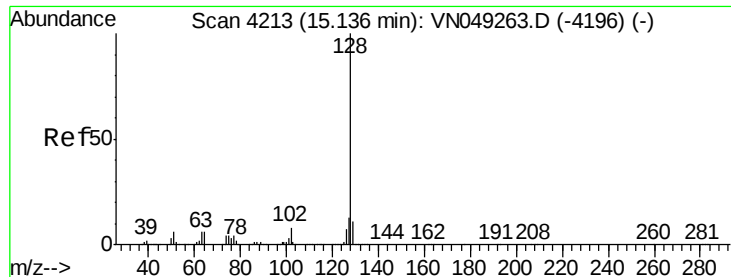
200

100

0

Time-->

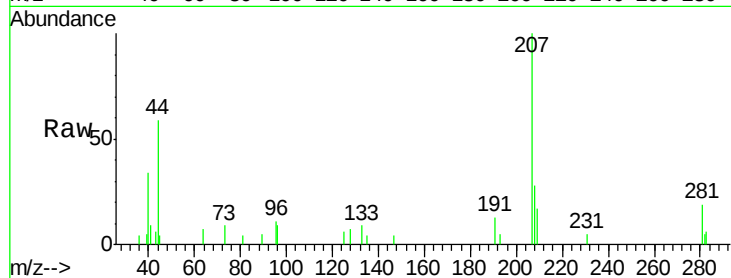




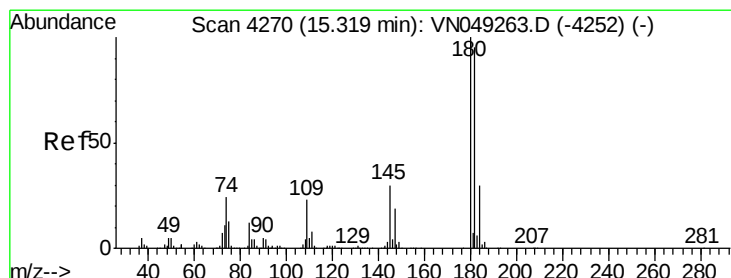
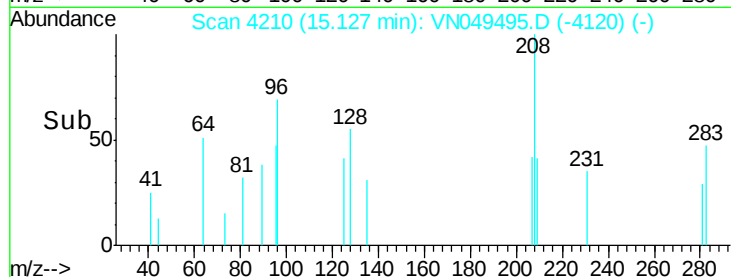
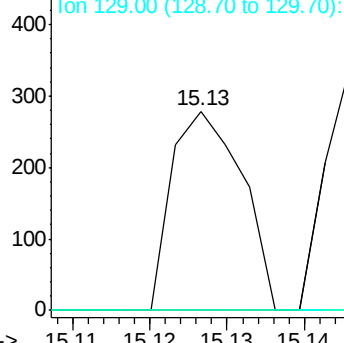
#95
Naphthalene
Concen: 2.09 ug/l
RT: 15.13 min Scan# 4210
Delta R.T. -0.01 min
Lab File: VN049495.D
Acq: 22 Jun 2018 16:49

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:128 Resp: 176
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.5 12.7#

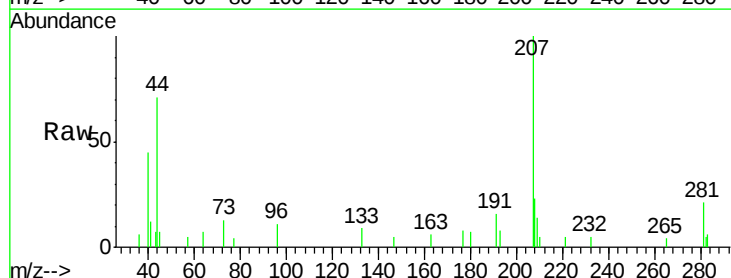


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 3.47 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN049495.D
Acq: 22 Jun 2018 16:49

Tgt Ion:180 Resp: 124
Ion Ratio Lower Upper
180 100
182 0.0 47.3 141.8#
145 95.2 15.6 46.7#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

